## WATER QUALITY MEMORANDUM

## Utah Coal Regulatory Program

March 11, 2013

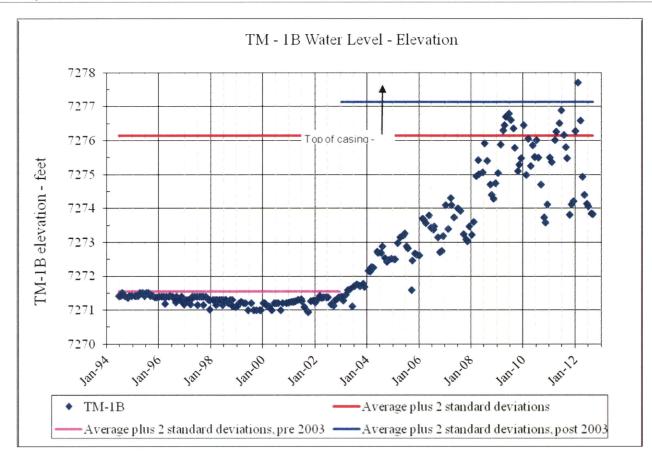
TO:	Internal File					
THRU:	Steve Christensen, Permit Supervisor SKL					
FROM:	Ken Hoffman, Hydrologist H					
RE:	Third Quarter of 2012 Water Monitoring, Pacifi Task ID #4187	Corp, Trail Moun	tain Mine, C/015/0009.			
The Tr Volume 9 of the	rail Mountain Mine is currently idle. The monito he MRP.	oring plan is descr	ibed in Appendix A of			
1. Were data	submitted for all of the MRP required sites?					
The Oliphant portal discharge (18-1-1 or T-18) is monitored as a spring. The MRP identifies 18 3-1 (T-19) as a stream monitoring point but the Permittee reports it as a spring.						
In-mine		YES 🖂	NO 🗌			
The mine is sealed, so there is no monitoring of underground or in-mine water.						
Springs		YES 🖂	NO 🗌			
The Oliphant portal discharge (18-1-1 or T-18) is monitored quarterly. Mine discharge has not occurred since December of 2001. The Permittee monitors springs 17-35-2, 17-35-1, 17-26-5, 17-25-1, 17-26-4, 17-22-1, 17-21-1, and 18-2-1 for operational parameters in July and October and for flow only in August and September. The Permittee monitors spring 18-3-1 (T-19) in Straight Canyon for operational parameters in March, June, September, and December and for flow only the remaining months of the year.						
Streams		YES 🖂	NO 🗆			
	ermittee monitors SW-1, SW-2 and SW-3 in Cotto ths of each quarter and for operational parameters					

February 11, 2013		
UPDES	YES 🖂	NO 🗌
There was no reported discharge from eithe The mine was sealed in June 2001 and there has be (the mine-water discharge into Cottonwood Creek)	en no reported discharge at U	
Wells	YES 🖂	NO 🗌
Since July 2004, the water level in TM-3 had determined from pressure measured by a gauge on monitored for water level monthly and for operation	the sealed wellhead (see char	rt below). TM-1B is
2. Were all required parameters reported for ea	ach site?	
Springs	YES 🖂	NO 🗌
Streams	YES 🖂	NO 🗌
UPDES	YES 🖂	NO 🗌
Wells	YES 🔀	NO 🗌
3. Were any irregularities found in the data?		
Listed parameters were outside two standar	d deviations.	
Springs 17-22-1 July – chloride, sulfate 18-3-1 September – dissolve potassium	YES 🔀	NO 🗌
Streams SW-3 September – chloride	YES 🔀	NO 🗌
UPDES No discharge.	YES	NO 🖂
Wells	YES 🖂	NO 🗌

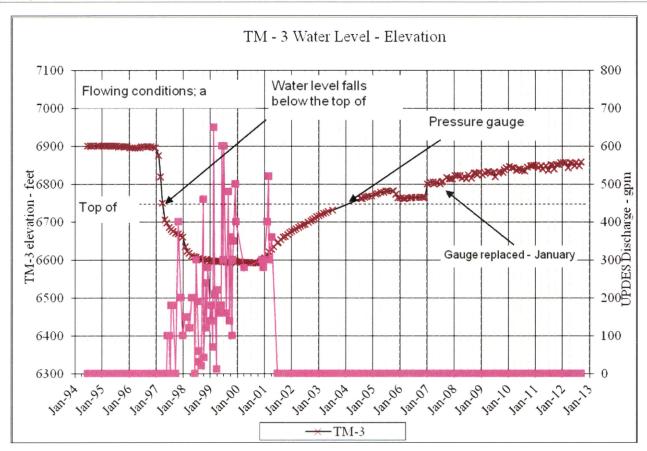
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The head in TM-1B began slowly rising in early 2003. The cause is not evident. Although highly variable from quarter to quarter, the water level now peaking again (the elevation was highest in February 2012). This water level will be continued to be tracked in the Fourth Quarter of 2012.



TM-3: water elevation peaked in June 2005, remained steady through October, dropped 18.5 ft in November and December 2005 and remained virtually unchanged during 2006. The pressure gauge was replaced in January 2007 and values jumped to approximately match the pre-2006 curve. During the first half of 2007, the curve was relatively flat, but it resumed climbing during the third quarter and has continued to climb during the Third Quarter of 2012.



## 4. On what date does the MRP require a five-year resampling of baseline water data.

The next renewal will be on 02/21/15. Baseline analyses were performed in 2001, 2006, and 2011. Analyses for baseline parameters will be repeated every 5 years conducted during 2016.

## 5. Based on your review, what further actions, if any, do you recommend?

There is no further action recommended at this time.

6.	Does the Mine Operator need to submit more requirements?	e information	to fulfill this q	uarter's monitoring
7.	Follow-up from last quarter, if necessary.			NA ⊠
8.	Did the Mine Operator respond adequately t		ut missing or in	